

REMARKS

The foregoing amendment to the specification is supported in Figure 2A as originally filed and does not introduce new matter.

The amendment to Figure 2A merely adds a sequence identifier to the figure to comply with 37 C.F.R. 1.821(d) and does not introduce new matter.

Enclosed is a marked-up version of the changes made by this amendment. The enclosed pages are captioned "**VERSION WITH MARKINGS TO SHOW CHANGES MADE**"

Entry of the foregoing amendment is respectfully requested and favorable action on the merits is earnestly solicited.

Date: December 4, 2002

Respectfully submitted,


Mafiette A. Lapiz, Reg. No. 44,202

DELTAGEN, INC.
740 Bay Road
Redwood City, CA 94063
(650) 569-5100

CERTIFICATE OF MAILING UNDER 37 CFR 1.8

I hereby certify that this correspondence and its listed enclosures is being deposited with the United States Postal Service as First Class Mail, postage paid, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on **December 4, 2002**

Name: **Deborah A. Mojarrro**

Signed: Canigin

Date: 12/4/02

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Page 8, lines 12-15 have been amended as follows:

Figure 2A-2B shows design of the targeting construct used to disrupt nuclear hormone receptor genes. Figure 2A, which illustrates the target sequence (SEQ ID NO:1) for the targeting construct, shows the location and extent of the disrupted portion of the nuclear hormone receptor gene, as well as the nucleotide sequences flanking the Neo' insert in the targeting construct. Figure 2B shows the sequences identified as SEQ ID NO:3 and SEQ ID NO:4, which were used as the targeting arms (homologous sequences) in the nuclear hormone receptor targeting construct.



Construct

GI Number(s): 2267577

Gene Family: Nuclear Hormone Receptor

Gene Subfamily: Orphan NHR

Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

CCTCGACCTCGAGATCCATTGGCTCTAAAGCAGACTGGGTCTACCTACATATGGC
ACCGAGGATACCTAGAGGCCCATGCAAGAGAAGGGCCTTGTTCAGGCAGTGACGC
CGCAGTCCCTAATTCCTCGCACTTCCTGAGATCTCAAGGAAAGCAGGGTCAAGCGAGGAGG
CCTGGGGAGAGGAGGCATCCTACACCCATCTTGTGGCTCCCTTAAGGGAAACAGGA
GACCATGACAGCTATGCTAACACTAGAAACCATGGCAGTGAGAAGAATATGGGCCAG
GAACTGTTGGTGTGGAGAGAGGGGCACAGGCTATCATGGCAGCCTGACTTGTGA
GGGCTGAAAGGGCTTCTCAGACGAACACTCAGCAAAACCATTGGTCCATTGTCCGTT
TGCTGAAAGGTGTGAGGTCAGCAAGGCCAGAGACGCCACTGTCCAGCCTGCAAGGTTGCA
GAAGTGTCTAAAATTGTGGCATGAGGAAAGCTGTAACTGTCAGGCAAGCCTGGCATT
GIGGGAGCCAGACAGGCACAGGGCGGGCAGAAGAAAGCTTTGCAATGTAATCAGC
GCAGAAGAACTGGTCCAGACTCTGGGGGCCCACTCGGCATTGGGGCCATTT
TGACCAGTTGTGCAGTCAGCTCCAGCCCTTATTGTTCAGCTACCGGCCTTCCA
GCCTCGGGGGCCCGTTGTGCTGTCACACATTTTGCAGATATCAACGTTTTGGT
GCAAAGAACTCATCAGGTCACAGGAGTTGCCGTTCCGGTCTAACCAGGA
CCAGAGATCCCTCTCTAAGGAGGGGTTGGAATTTTGCAATTCTCACTCAACATACA
GTTCTGTCTTCAAACAGGAATTTTTCTTGTGGGCCTTTTTGTCACAGATGGGGGA
AGTCCCATGCGGGTTCCAGTACGAGTTTTGGAGTTCGCATCCCCACTTCCAAAAAACT
GAAAGGACTGCATCUAGGGGTTGAGATTGTGCTATGGCTCGCCCCTTTCT
CCCTCGGGTTCTGTTATGCAAGCTGATGGCCTGTGGCTGACCTCGGAGTATAAACAAT
GCATATCTCCTTATGACTTCAGCGCTTGGAGACTGTCGTCATGACGGCGCTCGG
GAGATTTGCGAGTGGGCCAGGGCTTGCATCTTCCCAGACCCCCAGGGATACACTGG
CCTGGAAAGGGTACACGCGCTCGGACCCCACACACGCAAGGAAGGTTGGGAGTGGCAATGA
ATGCTGAACAGT

Gene Sequence
Structure *

282 bp

Sequence Deleted

403 bp

Size of full-length
cDNA: 1332 bp

FIG. 2A



Construct

GI Number(s): 2267577

Gene Family: Nuclear Hormone Receptor

Gene Subfamily: Orphan NHR

Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

CCCTCGACCTCGAGATCCATTGTGCTCTAAAGCAGAGTCTGGGTCTACCTACATATGCC
ACCGAGGATAACCTAGAGGCCCATGCAAGAGAAGGCCCTGTGTTTCCAGGCACTGAGGAC
CGCAGTCCCTAATTCTGGCAGTTCCTGAGATCTCAAGGAAAGCAGGGTCAGCAGGGAGG
CCTGGGAGAGGAGGCATCCTACACCCAATCTTGTGGCCTGCTGCCATAAGGGAAACAGGA
GACCTGACCTCTATCTTGAGACATGCCACTGAGAACATATGGGCGAG
GAACTGTGTGTGTGTGGAGAGCGGGCACAGGCTATCATTTCCACCCCCGACTTGTGAA
GGGCTGCAAGGGCTCTCAGACGAACAGTCAGCAAACCATTTGGTCCCACPTGTGCGTT
TGCTTGGAAAGGTGTGAGGTCAGCAAGGUCCAGAGAACGCCACTGTCCAGGCTGAGGTGCA
GAAGTGTCTAAAATGTTGGCAATGAGGAAAGACATGATACTGTCAGCAGAAGGCCCTGGCATT
GCGGCGAGCCAGACAGGCACAGCGGGCAGAGAAAGCATTGCAACTGAATCAGCA
GCAGAAAGAACTGTGTCAGATCTCTGGGGGCCACACTCGGCATGTGGGCCATTGTT
TGACCACTTGTGTCAGTCAAGCCTCCAGCCTATCTGTCATGCCATCAGGGCTTCCA
GCCCTGGGGGGGGGGCTGTGCCCTGCTCACACACTTGGCAGATATCAACACGTTTATGGT
GCAACAGATCATCAAGTTCACCAAGGATCTGCCCTTCCGGTCCCTAACCATGGAGGA
CCAGATCTCCCTCTCAAGGGAGCGGCTGTGGAAATATTGTCATATCTCACTCAACACTAC
GTTCTGTCTCAACAGAGAATTCTCTGTGGGCTCTTGCTACAAGATGGAGGAGC
AGTCCATGCAGGGTTCCAGTAGAGTTTGGAGTCGATCTTCACTTCCATAAAAACCT
GAAAGGACTGCATCTCCAGGAGCCTGAGATGTGCTCATGGCTGCCACGGCCCTCTTCTC
CCCTGGTTCTGATGCAAAGCTGATGGGCTGCTGGCTGACCTCCGGAGTATAAACAAAT
GCATACCTCATGAACATTCAAGCGCTTGGAGGAACGTGCTGCTATGAUGCCGCTGCTCGGG
GAGATTGCACTGAGGCCAGGCTTGACATCTTCCAGACCCCCAGGGATAACACTGG
CCTGGAAAGGGTACAGCGCTGGACCCACACAGCAGAAGGAGCTTGGGAGTGGCAATGAA
ATGCTGAACAGT (SEQ ID NO:1)

Gene Sequence Structure *

282 bp

Sequence Deleted

403 bp

**Size of full-length
cDNA: 1332 bp**

FIG. 2A